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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/536,958	05/31/2005	Soo-Yeon Shin	0630-2333PUS1	9931	
2292	7590 10/06/2006		EXAMINER		
	EWART KOLASCH &	WALBERG, TERESA J			
PO BOX 747 FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER	
			3744	3744	
		DATE MAILED: 10/06/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

					
	Application No.	Applicant(s)			
Office Action Summary	10/536,958	SHIN ET AL.			
Office Action Summary	Examiner	Art Unit			
The MAILING DATE of this arrange is a time	Teresa J. Walberg	3753			
The MAILING DATE of this communication app Period for Reply	ears on the cover sneet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 18 July 2006.					
2a) ☐ This action is FINAL . 2b) ☑ This	☐ This action is FINAL . 2b) ☐ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>4-7</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>4-6</u> is/are allowed.					
6)⊠ Claim(s) <u>7</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>31 May 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
* See the attached detailed Office action for a list of the certified copies not received.					
		,			
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
Paper No(s)/Mail Date					
8) ☑ Information Disclosure Statement(s) (PTO/SB/08) 5) ☑ Notice of Informal Patent Application Paper No(s)/Mail Date 7/18/16.8/9/06. 6) ☑ Other:					
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DETAILED ACTION

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 7 is rejected under 35 U.S.C. 102(b) as being anticipated by Lucke (1,833,166).

Lucke discloses a heat exchanger as claimed including a plurality of heat exchange plates (12) which are laminated at a predetermined interval (Fig. 1), first heat exchange portions positioned among the heat exchange plates and through which a first fluid stream passes, second heat exchange portions positioned along the heat exchange plates in turn with the first heat exchange portion and through which a second fluid stream passes, the first and second heat exchange portions being composed of a plurality of heat exchange members (12) having a predetermined length, and the heat exchange members being aligned at a predetermined interval (Fig. 1), first partitions (13) for closing the second heat exchange portions are attached on the both side surfaces through which the first fluid stream passes and second partitions (13) for closing the first heat exchange portion are attached on the other both side surfaces of the heat exchanger through which the second fluid stream passes. Note that the types of fluid used in the apparatus are considered to be a matter of intended use.

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3. Claims 4-6 are allowed.

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Simpelaar, Anderson, Kinsell et al, Abramzon et al, and Carpentier are cited to show partitions for closing the side surfaces of heat exchangers.

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Teresa J. Walberg whose telephone number is 571-272-4790. The examiner can normally be reached on M-F 8:00 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eric Keasel can be reached on 571-272-4929. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Jores of Mallorg
Teresa J. Walberg
Primary Examiner
Art Unit 3753

tjw